Old Hickory Dunn Tennessee Ball Clay

Category : Ceramic , Clay , Ball Clay

Material Notes:

Dunn clay is a selection originating from our Gleason, TN processing facility and is characterized by moderately high levels of kaolin interspersed with the presence of some carbon content. It is an economical selection of clay that can be considered particularly where high volumes of clay may be required. The selection has an established history of performance in pavement sealer applications and structural brick compositions.Information provided by Old Hickory Clay Company

Order this product through the following link:
http://www.lookpolymers.com/polymer_Old-Hickory-Dunn-Tennessee-Ball-Clay.php

Physical Properties	Metric	English	Comments
Particle Size	0.39 µm	0.39 µm	Median particle diameter
	0.50 µm	0.50 µm	55% of particles less than
	1.0 µm	1.0 µm	64% of particles less than
	<= 5.0 µm	<= 5.0 µm	84% of particles less than
pH	5.7	5.7	
Soluble Sulfates	192 ppm	192 ppm	
Specific Surface Area	19.3 m²/g	19.3 m²/g	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00310 GPa	0.450 ksi	Dry Modulus of Rupture, 50% clay/50% flint, cast bars

Thermal Properties	Metric	English	Comments
Shrinkage	5.7 %	5.7 %	Cone 04, Linear Fired Shrinkage
	6.4 %	6.4 %	Linear Drying Shrinkage
	6.5 %	6.5 %	Cone 3, Linear Fired Shrinkage
	7.7 %	7.7 %	Cone 11, Linear Fired Shrinkage

Component Elements Properties	Metric	English	Comments
Al2O3	26.9 %	26.9 %	
CaO	0.16 %	0.16 %	
Fe2O3	1.0 %	1.0 %	

Component Elements Properties	Metric	English	Comments
K2O	0.69 %	0.69 %	
Loss on Ignition(%)	8.98 %	8.98 %	
MgO	0.71 %	0.71 %	
Na2O	0.050 %	0.050 %	
SiO2	59.1 %	59.1 %	
TiO2	2.34 %	2.34 %	

Descriptive Properties	Value	Comments
Absorption (%)	10.6	Cone 3, Fired
	15.8	Cone 04, Fired
	3.7	Cone 11, Fired
CEC/MBI (meg/100 ml)	10.5	
Crude Color	Light Grey	
Filtration (ml)	24	
Pyrometric Cone Equivalent (PCE)	29	
Water of Plasticity (%)	30	
Wet Sieve Residue (%)	2.29	Wet Sieve Residue, +200 mesh

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